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14 November 1957

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Attention: [] Contracting Officer

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Subject: (Proposal for Antenna Design, Development, and Production.)

Enclosure: (1) One copy, [] Terms and Conditions.

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Gentlemen:

Pursuant to a recent request made by your representatives, [] is pleased to submit its proposal to design, develop, and produce five (5) reflector pedestal assemblies and one (1) antenna feed assembly for a firm fixed price of \$16,378.99. Adaptability to a frequency range of 1 kmc to 10 kmc will be provided with provision for either vertical or horizontal polarization. Broad-banding will not be furnished, but provision will be made for convenient interchanging of appropriate feeds. Connection to a 50 ohm unbalanced line will be provided.

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The mounting structure shall consist of a hand rotatable, self-supporting pedestal mount, adjustable to 6 feet from the bottom edge of the reflector to the floor.

The assembly can be broken down into units which can be packaged into cartons not exceeding 20 inches by 20 inches by 12 inches outside dimensions.

We contemplate furnishing five (5) reflector pedestal assemblies with the initial feed requirement for operation at [] One (1) feed only will be furnished.

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It is proposed to utilize a 36 inch spun aluminum parabolic reflector, which will be reinforced in the back and cut into four segments to meet the packaging requirements.

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Although the design of feeds for operation from 1 to 10 kmc, is beyond the scope of this task, some consideration must be given to possible configurations of feeds so as to obtain maximum versatility of the antenna. One convenient method of achieving this range of operation would be to utilize co-ax fed sleeve dipoles over the frequency range of 1-4 kmc and waveguide splash-plate feeds over the frequency range of 4-10 kmc. A total of five feeds would be required. For this particular task, a sleeve-dipole capable of operating over a range of 1-2 kmc is proposed. The input connection would be through a standard type N, 50 ohm receptacle and the feed will be capable of being mounted in the reflector in either vertical or horizontal plane, and attached with four knurled screws.

The proposed mounting structure is a sectionalized tripod and mast assembly which will permit coarse and fine height adjustments from 2 to 6 feet above the floor level and hand rotatable in azimuth through 360 degrees, with provision for locking in any position. The assembly will be self-supporting, without lagging or guying but provisions for lagging to floor will be made. There is no wind velocity specification.

Delivery can be made of one reflector pedestal assembly and one feed within ninety (90) days after receipt of a copy of the contract, duly executed by both parties. The balance shall be at the rate of two reflector pedestal assemblies per month thereafter. We will furnish manufacturer's drawings.

Deliveries shall be F.O.B., contractor's plant,

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In the event is awarded this particular procurement, it is imperative that the terms and conditions outlined in enclosure (1) be given consideration.

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This proposal is considered valid for a period of ninety (90) days from the date of this letter.

We appreciate the opportunity of submitting this proposal, and should the need arise for further information, please advise.

Very truly yours,

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NJS: glf

Contract Administration Dept.

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